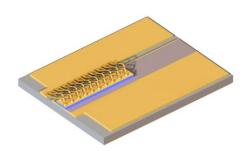


High Power Broad-Area Laser Diode on Submount



Features:

- Output power 2W @ 1320nm in CW mode
- Proprietary mirror coating technology enabling high reliability
- Reliable Au/Sn bonding of chip to composite submount
- RoHS compliance

Applications:

- Medical Devices
- Sensors
- · Scientific Research et al.

Recommended Operating Conditions				
Sample is mounted on a copper heatsink				
Parameter	Min.	Тур.	Max.	Unit
Heatsink Temperature	20	25	30	°C
Forward Current		4	5	Α
Output Power	0.2		2	W

Characteristics				
Tested for each sample @ CW, 25C, 4A				
Parameter	Min.	Тур.	Max.	Unit
Forward Current @ 2W			5	Α
Forward Voltage		1.5	1.9	V
Threshold Current		0.6	0.9	Α
Mean Wavelength	1310	1320	1330	nm
Bandwidth (FWHM)		6	12	nm
Wavelength Temperature Tunability		0.5		nm/°C
Slow Axis Beam Divergence (FWHM)	1	4	9	deg
Fast Axis Beam Divergence (FWHM)		28	35	deg
Mesa Width		30		μm
Polarization		TE		

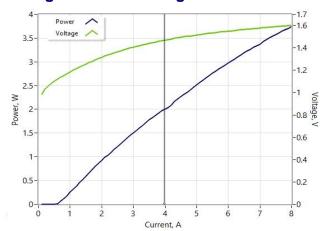
Absolute Maximum Ratings				
Parameter	Min	Max	Unit	
Output Power		4	W	
Forward Current (CW)		7	Α	
Reverse Voltage		2	V	
Soldering Temperature (5 sec. max)		250	°C	
Operating temperature (above dew point)	5	60	°C	
Storage Temperature (above dew point)	-40	85	°C	

Specification

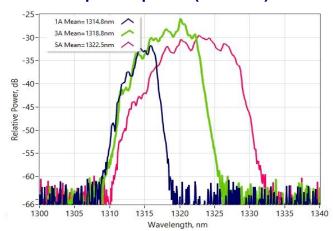
Innolume GmbH Konrad-Adenauer-Allee 11 44263 Dortmund, Germany

Typical Performance (for reference only)

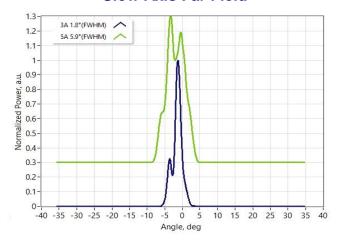
Light-Current-Voltage Characteristics



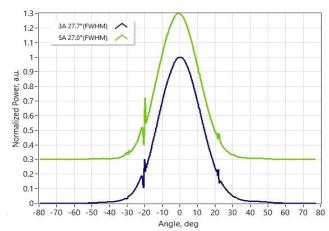
Optical Spectra (res. 1nm)



Slow Axis Far Field

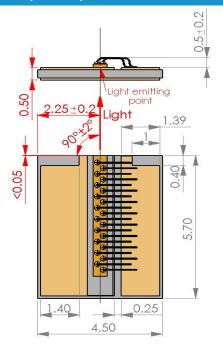


Fast Axis Far Field

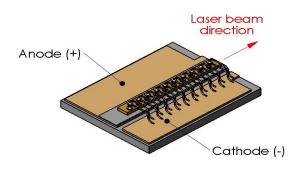


Dimensions (in mm)

INNOLUME



- Tolerance not indicated ±0.15.
- 2. Red colored dimensions refer to emitting point.



Safety and Operating Instructions

The laser light emitted from this Device is invisible and harmful to the human eye. Avoid looking directly into the fiber output or into the collimated beam along its optical axis when the device is in operation. Proper laser safety eyewear must be worn during operation.

Absolute Maximum Ratings may be applied to the Device for short period of time only. Exposure to maximum ratings for extended period of time or exposure above one or more max ratings may cause damage or affect the reliability of the Device.

Operating the product outside of its maximum ratings may cause device failure or a safety hazard. Power supplies used with the Device must be employed such that the maximum peak optical power cannot be exceeded. A proper heatsink for the Device on thermal radiator is required, sufficient heat dissipation and thermal conductance to the heatsink must be ensured by flux-free soldering.

The Device is an Open-Heatsink Diode Laser; it may be operated in cleanroom atmosphere or dust-protected housing only. Operating temperature and relative humidity must be controlled to avoid water condensation on the laser facets. Any contamination or contact of the laser facet must be avoided.

ESD PROTECTION – Electrostatic discharge is the primary cause of unexpected product failure. Take extreme precautions to prevent ESD. Use wrist straps, grounded work surfaces and rigorous antistatic techniques when handling the product.









Part-number Identification

BAA1320006CC002WXXXX - broad area laser with 2W output power, mean wavelength 1320nm, 6nm bandwidth, 30um mesa width

NOTE: Innolume product specifications are subject to change without notice